

**To:** Naranjo, Eugenia[Naranjo.Eugenia@epa.gov]  
**Cc:** Brian Mikucki[bmikucki@tierrasolutionsinc.com]  
**From:** Clifford Firstenberg  
**Sent:** Mon 2/6/2017 9:19:38 PM  
**Subject:** RE: Risk Assessment Database Questions

Eugenia – I am hopeful we can submit the data to EPA this week. We should get the data from ELLE by the end of the day tomorrow; then we need to import, run it through EDP, etc. So, allowing for a hic-up here and there, I would hope we can submit by Friday. I will keep you posted.

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Clifford E. Firstenberg

Principal and Environmental Sciences Manager

Tierra Solutions, Inc.

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*Thank You.*

**From:** Naranjo, Eugenia [mailto:Naranjo.Eugenia@epa.gov]  
**Sent:** Monday, February 06, 2017 5:25 AM  
**To:** Clifford Firstenberg <cfirstenberg@tierrasolutionsinc.com>  
**Cc:** Brian Mikucki <bmikucki@tierrasolutionsinc.com>  
**Subject:** Re: Risk Assessment Database Questions

It's ok, please let me know as soon as you have any update. Thanks

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**From:** Clifford Firstenberg <cfirstenberg@tierrasolutionsinc.com>  
**Sent:** Friday, February 3, 2017 12:14 PM  
**To:** Naranjo, Eugenia  
**Cc:** Brian Mikucki  
**Subject:** RE: Risk Assessment Database Questions

Eugenia - we will not meet the 2-week deadline for delivering the MEDDs (Monday, February 6). There is a hold-up getting the homolog data from Eurofins. I am waiting on a response from them but at this late point in time, I think it unlikely they will be able to provide what we need in time for us to develop the deliverables and submit Monday.

I will keep you posted and hope to have more information by Monday. I would hope that the delay is not significant.

Cliff

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*Thank You.*

**From:** AccardiDey, AmyMarie [<mailto:aaccardidey@louisberger.com>]

**Sent:** Tuesday, January 31, 2017 7:45 AM

**To:** Clifford Firstenberg <[cfirstenberg@tierrasolutionsinc.com](mailto:cfirstenberg@tierrasolutionsinc.com)>; Warner, Len <[lwerner@louisberger.com](mailto:lwerner@louisberger.com)>

**Cc:** Naranjo, Eugenia <[Naranjo.Eugenia@epa.gov](mailto:Naranjo.Eugenia@epa.gov)>; Brian Mikucki <[bmikucki@tierrasolutionsinc.com](mailto:bmikucki@tierrasolutionsinc.com)>; Franklin, Elizabeth A NWK ([Elizabeth.A.Franklin@usace.army.mil](mailto:Elizabeth.A.Franklin@usace.army.mil)) <[Elizabeth.A.Franklin@usace.army.mil](mailto:Elizabeth.A.Franklin@usace.army.mil)>

**Subject:** RE: Risk Assessment Database Questions

Cliff – Len is in training today. The database issues are: (1) adding the PCB and PCDD/F homologues to the database, and (2) per the referenced email below, making the database

EQUIS compatible and fixing the porewater reportable results.

Regards

AM

AmyMarie Accardi-Dey, Ph.D.

Phone: 914.620.5110

**From:** Clifford Firstenberg [<mailto:cfirstenberg@tierrasolutionsinc.com>]

**Sent:** Monday, January 30, 2017 4:17 PM

**To:** Warner, Len

**Cc:** AccardiDey, AmyMarie; Naranjo, Eugenia; Brian Mikucki; Franklin, Elizabeth A NWK ([Elizabeth.A.Franklin@usace.army.mil](mailto:Elizabeth.A.Franklin@usace.army.mil))

**Subject:** FW: Risk Assessment Database Questions

Len – Eugenia and I discussed last week steps to finalize the crab/clam, fish, SQT and Porewater data. She pointed-out the need for Tierra to possibly make some corrections/changes to the database. The email, below, is all that I could find that might be pertinent. I cannot see that Carlie ever responded to you, but I may just not be able to find the email. A couple of questions:

- Does the email below capture the extent of EPA's comments and items Tierra needs to address?
- If not, can you provide additional information?

Also, we are working on a potential analytical issue with the NB Phase III data. I will send you the details once we have it summarized sufficiently to talk (we will want to discuss this). I hope to have something to you tomorrow.

Thanks

Cliff

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*Thank You.*

**From:** Warner, Len [<mailto:lwerner@louisberger.com>]

**Sent:** Friday, September 09, 2016 6:50 PM

**To:** Carlie Thompson <[cthompson@tierrasolutionsinc.com](mailto:cthompson@tierrasolutionsinc.com)>

**Cc:** Clifford Firstenberg <[cfirstenberg@tierrasolutionsinc.com](mailto:cfirstenberg@tierrasolutionsinc.com)>; AccardiDey, AmyMarie <[aaccardidey@louisberger.com](mailto:aaccardidey@louisberger.com)>; Elizabeth A. Franklin

<Elizabeth.A.Franklin@usace.army.mil>; Eugenia Naranjo (Naranjo.Eugenia@epa.gov)  
<Naranjo.Eugenia@epa.gov>

**Subject:** Risk Assessment Database Questions

Hello Carlie:

We have a couple of initial questions/comments on the Tierra database that was provided on 19 August (as per your e-mail below). While the database is proving very useful during our review of the field and data reports (thanks!), we wanted to check with you regarding its suitability for upload to the overall EQuIS database maintained by CDM before we sent it over to Scott Kirchner.

It appears that the compiled database that you provided may have some new columns and also some deleted columns, compared to the EPA Region 2 EDD format, based on a review of structure and field type by AmyMarie. Please advise whether you think the database adheres to the BasicChem structure, or whether a Region 2 EDD-compliant database will be submitted later this year.

AmyMarie suggested that the final converted porewater concentrations be added to the database as "CAL" (calculated) and made "reportable." Tierra could then mark the extract volume concentrations that are currently listed in the database as "not reportable", with a comment that the converted porewater concentrations supersede the extract volume concentrations. We are not certain that CDM should upload the extract volume concentrations – they may create confusion for database users regarding which porewater results should be evaluated.

Have a great weekend and let us know if you need any further clarification from us on these topics.

Best regards, Len

**Len Warner**

Director | Environmental Evaluation & Forensics

**Louis Berger** | +1.914.798.3721 | [louisberger.com](http://louisberger.com)

**From:** Carlie Thompson [mailto:[cthompson@tierrasolutionsinc.com](mailto:cthompson@tierrasolutionsinc.com)]  
**Sent:** Friday, August 19, 2016 11:13 AM  
**To:** Eugenia Naranjo <[naranjo.eugenia@epa.gov](mailto:naranjo.eugenia@epa.gov)>  
**Cc:** Clifford Firstenberg <[cfirstenberg@tierrasolutionsinc.com](mailto:cfirstenberg@tierrasolutionsinc.com)>; AccardiDey, AmyMarie <[aaccardidey@louisberger.com](mailto:aaccardidey@louisberger.com)>; Warner, Len <[lwerner@louisberger.com](mailto:lwerner@louisberger.com)>; Elizabeth A. Franklin <[Elizabeth.A.Franklin@usace.army.mil](mailto:Elizabeth.A.Franklin@usace.army.mil)>  
**Subject:** Risk Assessment Database

Please find below a link to download a database containing data from the crab/clam, fish and SQT and porewater programs including calculated totals. Please let me know if you have any questions.

[https://www.dropbox.com/s/78vzu5p0tv1kvtj/Biota-Sediment\\_Database\\_081916.zip?dl=0](https://www.dropbox.com/s/78vzu5p0tv1kvtj/Biota-Sediment_Database_081916.zip?dl=0)

Thanks,

Carlie

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